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1 [Parallel and distributed systems \(PDS\): A cost-oriented approach for infrastructural design](#)



Danilo Ardagna, Chiara Francalanci, Marco Trubian

 March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

 Full text available: [pdf\(186.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The selection of a cost-minimizing combination of hardware and network components that satisfy organizational requirements is a complex design problem with multiple degrees of freedom. Decisions must be made on how to distribute the overall computing load onto multiple computers, where to locate computers and how to take advantage of legacy components. The corresponding optimization problem not only embeds the structure of NP-hard problems, but also represents a challenge with a well-structured ...

Keywords: cost minimization, tabu-search

2 [Web and e-business application: A cost-oriented methodology for the design of web based IT architectures](#)



Danilo Ardagna, Chiara Francalanci

 March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

 Full text available: [pdf\(628.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes a design methodology of Web-based IT architectures tying organizational requirements to technical choices and costs. Information system design and optimum sizing is the result of a reconciliation of several conflicting requirements, including technical performance and costs. Web-based IT architectures involve a number of design choices with significant cost implications: the adoption of thin clients executing Web applications remotely, the choice of the number of architectura ...

Keywords: IT architectures, cost minimization, web architectures


3 [The interactive performance of SLIM: a stateless, thin-client architecture](#)



Brian K. Schmidt, Monica S. Lam, J. Duane Northcutt

 December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.79 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Taking the concept of thin clients to the limit, this paper proposes that desktop machines should just be simple, stateless I/O devices (display, keyboard, mouse, etc.) that access a shared pool of computational resources over a dedicated interconnection fabric --- much in the same way as a building's telephone services are accessed by a collection of handset devices. The stateless desktop design provides a useful mobility model in which users can transparently resume their work on any desktop c ...

4 Limits of wide-area thin-client computing



 Albert Lai, Jason Nieh
June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02**, Volume 30 Issue 1


Publisher: ACM Press

Full text available:  [pdf\(183.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

While many application service providers have proposed using thin-client computing to deliver computational services over the Internet, little work has been done to evaluate the effectiveness of thin-client computing in a wide-area network. To assess the potential of thin-client computing in the context of future commodity high-bandwidth Internet access, we have used a novel, non-invasive slow-motion benchmarking technique to evaluate the performance of several popular thin-client computing plat ...

5 THINC: a virtual display architecture for thin-client computing



 Ricardo A. Baratto, Leonard N. Kim, Jason Nieh
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(297.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Rapid improvements in network bandwidth, cost, and ubiquity combined with the security hazards and high total cost of ownership of personal computers have created a growing market for thin-client computing. We introduce THINC, a virtual display architecture for high-performance thin-client computing in both LAN and WAN environments. THINC virtualizes the display at the device driver interface to transparently intercept application display commands and translate them into a few simple low-level c ...

Keywords: mobility, remote display, thin-client computing, virtualization

6 Workload analysis: Characterization of a large web site population with implications for content delivery



 L. Bent, M. Rabinovich, G. M. Voelker, Z. Xiao
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press

Full text available:  [pdf\(727.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a systematic study of the properties of a large number of Web sites hosted by a major ISP. To our knowledge, ours is the first comprehensive study of a large server farm that contains thousands of commercial Web sites. We also perform a

simulation analysis to estimate potential performance benefits of content delivery networks (CDNs) for these Web sites. We make several interesting observations about the current usage of Web technologies and Web site performance characteristi ...

Keywords: content distribution, cookie, http, measurement, performance, web caching, workload characterization

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren


November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

8 Analyzing the application ASP concept: technologies, economies, and strategies

 Kenneth R. Walsh

August 2003 **Communications of the ACM**, Volume 46 Issue 8

Publisher: ACM Press

Full text available:  [pdf\(97.82 KB\)](#)  [html\(25.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The application service provider model can realize economies of scale in managing hardware, software, and personnel resources, but this new concept also introduces uncertainty as it redistributes responsibilities among organizations.

9 Session 1D: Analog macromodeling: Simulation-based automatic generation of signomial and posynomial performance models for analog integrated circuit sizing

Walter Daems, Georges Gielen, Willy Sansen

November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Press

Full text available:  [pdf\(163.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a method to automatically generate posynomial response surface models for the performance parameters of analog integrated circuits. The posynomial models enable the use of efficient geometric programming techniques for circuit sizing and optimization. To avoid manual derivation of approximate symbolic equations and subsequent casting to posynomial format, techniques from design of experiments and response surface modeling in combination with SPICE simulations are used to gene ...

Keywords: analog circuit modeling, design of experiments, geometric programming, posynomial and signomial response surface modeling

10 Higher education ERP: a framework to reduce the pain

 Kris T. Pegah, Mahmoud Pegah, Terry M. Dillow

September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  [pdf\(321.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Higher Education Institutions are now spending a significant portion of their budget to implement and maintain modern Enterprise Resource Planning (ERP) solutions. ERP is a software solution that integrates information and business processes to enable information entered once into the system to be available across the information technology infrastructure. In this report, we provide our framework to implement a secure infrastructure for ERP systems which is scalable, robust, easy to maintain, and ...

Keywords: ERP, administrative systems infrastructure, best of breed, isolated network, security

11 Measuring and characterizing end-to-end Internet service performance



Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance


12 Migrating E-commerce database applications to an enterprise Java environment



Terence C. Lau, Jianguo Lu, Erik Hedges, Emily Xing

November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(572.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As technology evolves over time, a common problem is the migration of software applications from one technology base to another. This paper is a practical experience report based on IBM Net.Commerce to WebSphere Commerce Suite (WCS) migration. It identifies the problems and issues in the migration of applications using traditional database access (SQL) to applications using the Enterprise Java Bean (EJB) programming model, and presents a practical methodology in facilitating such migration. It a ...

Keywords: E-commerce, JSP, Net.data, SQL, database re-engineering, enterprise Javabeen, migration, relational-object mapping

13 Composable ad hoc location-based services for heterogeneous mobile clients



Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(403.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


14 Performance Workload Char. and Adaptation: Aliasing on the world wide web: prevalence and performance implications



Terence Kelly, Jeffrey Mogul

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(376.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Aliasing occurs in Web transactions when requests containing different URLs elicit replies containing identical data payloads. Conventional caches associate stored data with URLs and can therefore suffer redundant payload transfers due to aliasing and other causes. Existing research literature, however, says little about the prevalence of aliasing in user-initiated transactions, or about redundant payload transfers in conventional Web cache hierarchies. This paper quantifies the extent of aliasing ...

Keywords: DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, duplicate suppression, duplicate transfer detection, hypertext transfer protocol, performance analysis, redundant transfers, resource modification, world wide web

15 Administration of campus computing labs and faculty desktops



Jonathan E. Geibel

November 1999 **Proceedings of the 27th annual ACM SIGUCCS conference on User services: Mile high expectations**

Publisher: ACM Press

Full text available:  [pdf\(43.29 KB\)](#) Additional Information: [full citation](#), [index terms](#)

Keywords: Macintosh, Novell, Windows NT, ZENWorks, authentication, desktop management, printing, unattended installs


16 SEDA: an architecture for well-conditioned, scalable internet services



Matt Welsh, David Culler, Eric Brewer

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a new design for highly concurrent Internet services, which we call the *staged event-driven architecture* (SEDA). SEDA is intended to support massive concurrency demands and simplify the construction of well-conditioned services. In SEDA, applications consist of a network of event-driven *stages* connected by explicit *queues*. This architecture allows services to be well-conditioned to load, preventing resources from being overcommitted when demand exceeds service cap ...


17 METRICS: a system architecture for design process optimization



Stephen Fenstermaker, David George, Andrew B. Kahng, Stefanus Mantik, Bart Thielges

June 2000 **Proceedings of the 37th conference on Design automation**

Publisher: ACM Press

Full text available:  [pdf\(119.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe METRICS, a system to recover design productivity via new infrastructure for design process optimization. METRICS seeks to treat system design and implementation as a science, rather than an art. A key precept is that measuring a design process is a prerequisite to optimizing it and continuously achieving maximum productivity. METRICS (i) unobtrusively gathers characteristics of design artifacts, design process, and communication ...

18 Developments in simulation and instrumentation: Web100: extended TCP instrumentation for research, education and diagnosis



Matt Mathis, John Heffner, Raghu Reddy

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: [pdf\(215.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

TCP has become the dominant protocol for all network data transport because it presents a simple uniform data delivery service which is sufficient for most applications over all types of lower network layers. By its very nature, TCP's adaption and retransmission strategies hide all of the details of the lower layers from the application. For example the only symptom of spurious packet loss (or nearly any other network problem) is longer elapsed time and lower performance. This information hiding ...

Keywords: Net100, TCP Performance, Web100, instrumentation

19 Composable ad-hoc mobile services for universal interaction



Todd D. Hodes, Randy H. Katz, Edouard Servan-Schreiber, Lawrence Rowe

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: [pdf\(1.86 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 Building multi-device, component-based, thin-client groupware: issues and experiences



John Grundy, Xing Wang, John Hosking

January 2002 **Australian Computer Science Communications , Third Australasian conference on User interfaces - Volume 7 CRPITS '02**, Volume 24 Issue 4

Publisher: Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of groupware, or collaborative work-supporting technologies, has become widespread, but many existing groupware systems are too difficult to integrate with domain-specific software applications, only work for specific user interface hardware, or provide inappropriate, thick-client architectural solutions. We describe a set of server-side software components we have developed providing a variety of thin-client groupware solutions (chat, email, annotation, to-do lists, notification etc). ...

Keywords: groupware, mobile user interfaces, software architecture, thin-client user interfaces



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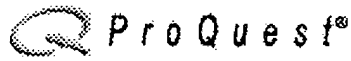
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